



No. 171

December 8, 2003

TECHNICAL BULLETIN

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ADC'S ANNUAL PHYSICAL INVENTORY SHUTDOWN

The **ADC** factory and Parts Department will shut down for its annual physical inventory from noon on Wednesday, **December 24, 2003** through Thursday, **January 1, 2004**.

We will ship parts orders on Wednesday, **December 24, 2003**, up until the UPS schedule permits, which is normally up until approximately 10:00 a.m. (EST). Parts orders called in, faxed, or e-mailed in during this period will be processed immediately following the completion of this inventory (**January 2, 2004**).

JANUARY 1, 2004 PARTS PRICE LIST

Our next Parts Price List (**ADC** P/N 451000) will have a **JANUARY 1, 2004** effective date. This updated Parts Price List will be available to be downloaded from our website, www.amdry.com, the week of **December 22, 2003**. As with previous Parts Price Lists, it will also be available on our **ADC** Publications CD-ROM (**ADC** P/N 882206). Printed copies of the **JANUARY 1, 2004** Parts Price List will be available through normal parts order channels at a minimal fee of \$2 NET.

The Parts Price List is updated on a quarterly basis: January, April, July, and October.

- IMPORTANT:**
- 1) Prices are subject to change without notice. The price(s) on the invoice may not necessarily be the same as the price(s) shown on the Parts Price List.
 - 2) Formal (written) quotes will be valid for thirty (30) days. When submitting parts orders in which a formal quote was issued, the quotation number must be provided at the time or the quote will not be valid.
 - 3) Verbal quotes are not binding and will not be honored.

REMINDER E-MAIL PARTS ORDER SHIPMENT NOTIFICATION SYSTEM

ADC has a system available to notify our customers by e-mail when their parts order is shipped via UPS. However, to do this you *MUST ASK* for this service and provide an e-mail address at the time the order is placed with our customer service representative. Once the order is shipped by **ADC**, the automatic UPS shipping notification system will be activated and you will be informed by UPS, via e-mail, of the status of your shipment.

The notification will include the following Important Delivery Information: Ship To Address; Number of Packages in Shipment; UPS Service (Next Day Air, etc.); Weight; UPS Tracking Number; and Reference Number, which is **ADC's** acknowledgment (packing list) number. Any reply to this notification will not be received by UPS or **ADC**.

ADC WEBSITE PUBLICATIONS

The publications section of our website (www.amdry.com) includes a library of all publications available electronically, including Technical Bulletins, Parts Manuals, Installation Manuals, User's Manuals, Addenda, Service Manuals, Price Lists, and Warranty Information. The site is updated weekly and includes both current production and past production manuals.

D120 TUMBLER CHANGE

As of **November 17, 2003**, the D120 model dryer is no longer manufactured with a tumbler (basket) with an epoxy based Teflon (painted) finish. This model dryer is now manufactured with a stainless steel tumbler (basket).



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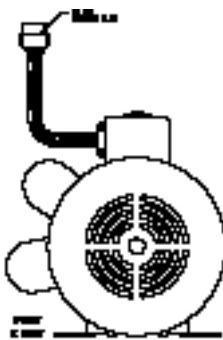
SERVICE TIP!!

REPLACEMENT OF PLUG TYPE MOTORS

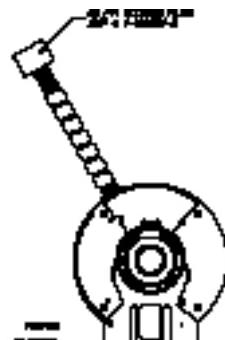
ADC uses various motor vendors, and in some instances the plug connection type motors used (includes both single and stack units) are identical, with exception visually, where in some cases the wiring between the motor and connector differs from the motor being replaced. Even though the wiring may look different (not the same amount of wires between the motor and connector), some vendors make the termination changes inside the motor thereby requiring less wires between the motor and the connector. Again, even though they may look different, they are totally interchangeable.

THE MOTOR IS A DIRECT REPLACEMENT, SO IF THE PLUG HAS MORE OR LESS WIRES, NO MODIFICATIONS ARE NEEDED. DO NOT CUT THE PLUG CONNECTOR OFF AND TRY TO REWIRE THE MOTOR!

THE JUMPERING IS DONE ON THE DRYER SIDE PLUG FOR THE VOLTAGE APPLICABLE.



SINGLE DRYER



STACK DRYER

AD-170, CG165-75, CG145-55 TUMBLER BEARING CHANGE

As of **November 13, 2003**, the 2-1/2" Pillow Block Bearing with setscrews (**ADC** P/N's 100242 & 881775) used on the tumbler shafts of the models AD-170, CG165-75 and CG145-55 has changed to a GRIPLOCK type Bearing (**ADC** P/N 884100).

IMPORTANT: GRIPLOCK BEARING COLLAR SCREW MUST BE TORQUED BETWEEN 360-400 INCH POUNDS.

The GRIPLOCK type bearing can be used as a direct replacement for models previously manufactured with the setscrew type bearing.

PHASE 7.4.2 GEN II DMC MP BOARD CHANGE

As of **December 2, 2003**, the phase 7.4.2 DMC board used in our AD-320, AD-330 and AD-360X2 Stack dryer product line has some programming enhancements and program procedure changes (menu paths). The **ADC** P/N 137260 has not changed, as the two versions are physically the same and totally interchangeable with the previous board. The differences are some software enhancements and program procedure changes (menu paths). However, due to the program enhancements and program procedure changes, the dryers now include a new MP (Phase 7.4.2) user's manual and an updated program location label.

PHASE 7.2 GEN I TO GEN II NON-COIN MP BOARD CHANGE

As of **December 3, 2003**, the phase 7.2 Non-Coin board used in "ALL" main and medium line products has changed from a Phase 7.2.1 (GEN I) MP board (**ADC** P/N 137247) to a Phase 7.2.2 (Gen II) MP board (**ADC** P/N 137243). The two versions are physically the same; the differences are some enhancements and program procedure changes (menu paths). However, other changes have been made to the dryer where the 7.2.1 GEN I version board (**ADC** P/N 137247) cannot be used as a replacement for this **December 2003** or newer vintage dryer. As the result of these changes, the dryers now include a new MP (Phase 7.2.2.) user's manual and an updated program location label.

An IMPORTANT new SAFETY feature that is part of this change is an external water pressure sensor which is monitored by the Sensor Activated Fire Extinguishing (S.A.F.E.) system or Fire Suppression System (F.S.S.) and detects if water is NOT being applied to the dryer's S.A.F.E./F.S.S. water supply valve. The Phase 7.2.2 MP Non-Coin board can now detect if water is not present and notifies the user (location), via the display, if the system is disabled due to the lack of a water supply. If water is applied to the system, and after a certain amount of hours the water supply is disrupted (shut off or lost), the display will prompt and notify the user that the system has been disabled, and the Phase 7.2.2 computer system will NOT allow the dryer to heat above 120° F (49° C) (axial models), or 130° F (54° C) (radial models). If on the other hand, water was never applied to the water valve and never sensed, the Phase 7.2.2 computer display will prompt the user that the S.A.F.E. system or F.S.S. is disabled, and will continue to operate normally for a preprogrammed amount of time. If at that point water is not connected or sensed, the Phase 7.2.2 computer will NOT allow the dryer to heat above 120° F (49° C) (axial models), or 130° F (54° C) (radial models).

This change includes ALL non-coin AD, CG, D, MD, and STI models 15 through 190 (CG190-200).

D170 TUMBLER CHANGE

As of **November 10, 2003**, the D170 model dryer is no longer manufactured with a tumbler (basket) with an epoxy based Teflon (painted) finish. This model dryer is now manufactured with a stainless steel tumbler (basket).

AD-170, D170, AND CG165-75 NOW HAVE BACK DRAFT DAMPERS

As of **November 19, 2003**, the models AD-170, D170, and CG165-75 are now manufactured with a back draft damper. Prior to this back draft dampers were a "cost" option for the above mentioned model dryers.

AD-200 AND AD-310 380V TRANSFORMER AND BREAKER CHANGE

In an effort to standardize, as of **October 27, 2003**, the transformer used in all gas and steam 380 volt versions of the AD-200 and AD-310 has changed. The transformer has changed from a 300VA transformer (**ADC** P/N 132073) to a 450VA transformer (**ADC** P/N 132088). As the result of this change, the circuit breaker (CB7) has changed from **ADC** P/N 135512 to 135513. Therefore, the newer 450VA transformer CANNOT be used as a direct replacement in the field unless the breaker is changed as well.

D90 TUMBLER CHANGE

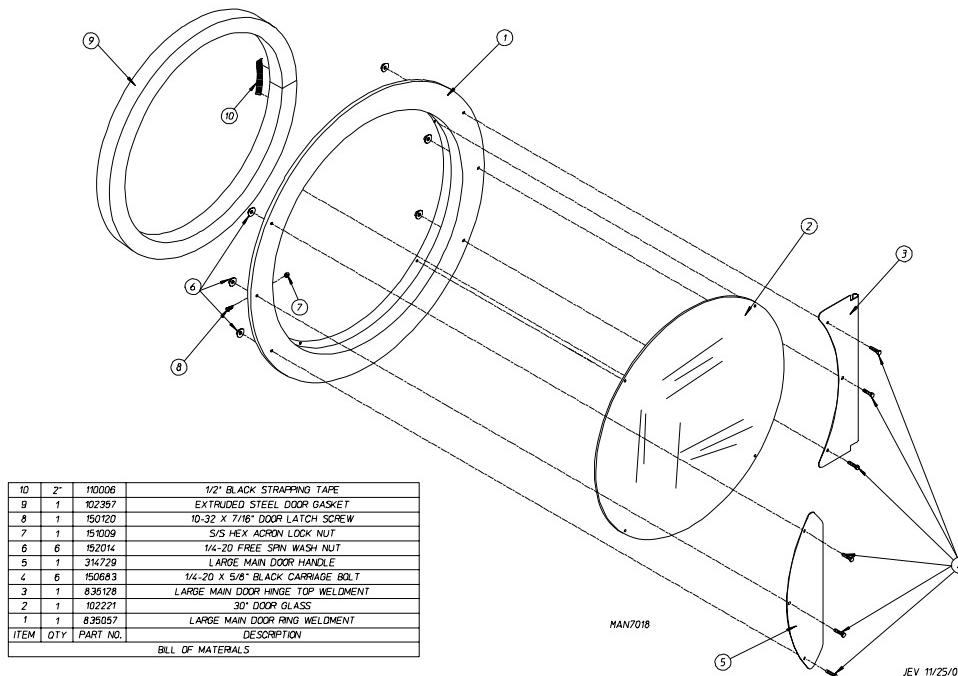
As of **December 1, 2003**, the D90 model dryer is no longer manufactured with a tumbler (basket) with an epoxy based Teflon (painted) finish. This model dryer is now manufactured with a stainless steel tumbler (basket).



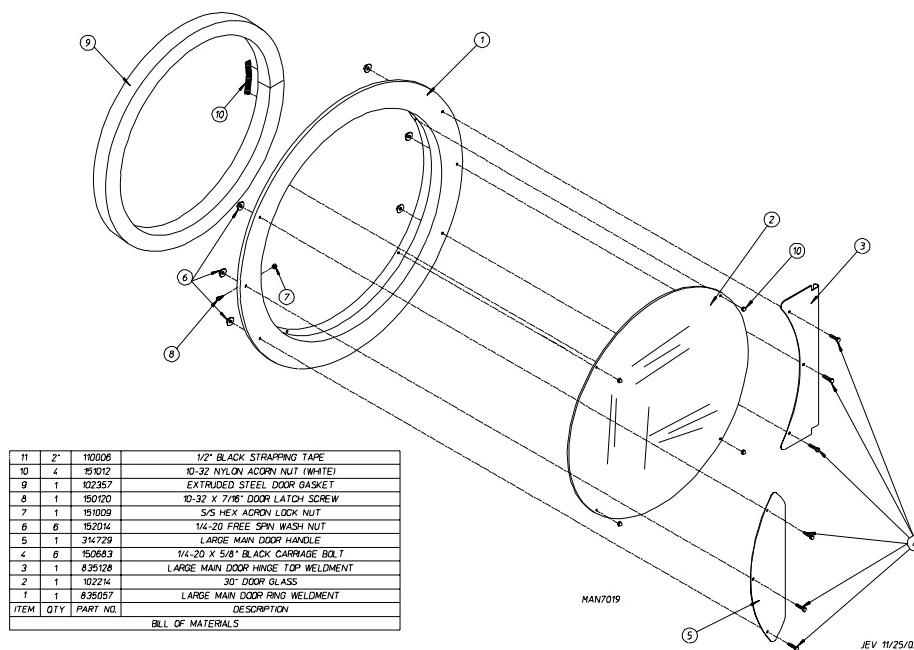
AD-78 AND CG MEDIUM LINE MAIN DOOR CHANGE

The studs and nylon acorn nuts (White **ADC** P/N 141012 or Black **ADC** P/N 141013) used to secure the glass in place have been deleted from our 31-1/4" CRS Main door, which is used on the models AD-78, AD-60 (WASSALON), CG115-25, CG145-55, CG165-75, and CG190-00. The glass is now secured in place with a silicone type of adhesive. As the result of this change, the main door glass has changed as well (holes eliminated) from **ADC** P/N 102214 to **ADC** P/N 102221 (glass without holes). This change was implemented in production on **November 6, 2003** and affects all related main doors assemblies, BOTH production and parts orders.

CURRENT PRODUCTION DOOR



PREVIOUS PRODUCTION DOOR



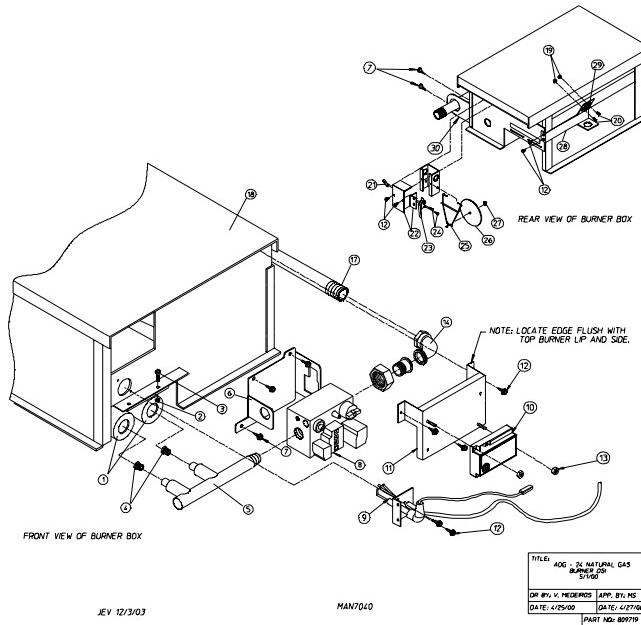
ADG-24 DIRECT SPARK IGNITION (DSI) MODULE CHANGE

The model ADG-24 (GAS) manufactured as of **November 24, 2003**, has a different type of Direct Spark Ignition (DSI) module, mounting bracket, and High Voltage (HV) wire. The Johnson Controls DSI Module (**ADC** P/N 801048) for this model dryer has been replaced with our alternate vendor (Fenwal) DSI module (**ADC** P/N 128937). As the result of this DSI module changeover the DSI mounting bracket has changed (mounting stud foot print differs). In addition, the High Voltage (HV) wire has also changed, as now the termination to the Fenwal module is made with a 1/4" female spade terminal, as opposed to a non-terminated stud connection to the Johnson Controls DSI module. Due to these differences the Fenwal (**ADC** P/N 128937) CANNOT be used as a direct replacement for existing dryers in the field manufactured with the previously used Johnson Controls DSI module (**ADC** P/N 801048).

The drawings below are ONLY of the natural gas burner assemblies and are for comparison purposes only.

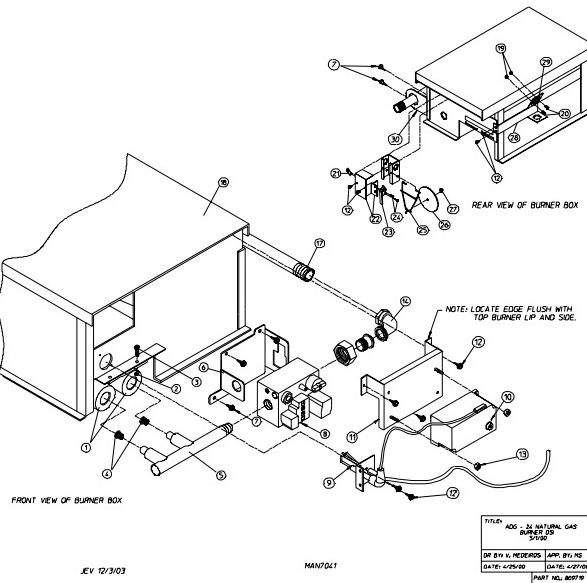
Current Fenwal AD-24 (natural) Burner Assembly

ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			
30	1	318700	PIPE BRACKET (BENT)
29	1	130403	330° HI-LIMIT WITH AUTO RESET
28	1	319704	HI-LIMIT MOUNTING BRACKET
27	1	154002	1/8" PUSH-ON FASTENER
26	1	319202	SAIL SWITCH DAMPER (FLAT)
25	1	105500	SAIL SWITCH ACTUATOR ROD
24	2	150303	#4 X 3/4" PAN HEAD "A" MACHINE SCREW
23	1	122200	SAIL SWITCH
22	1	802799	SAIL SWITCH TOP AND SWITCH BRACKET WELDMENT
21	1	154004	TWIN SPEED NUT
20	2	150001	#6-32 X 1/2" ROUND HEAD MACHINE SCREW
19	2	151000	#6-32 PAL NUT
18	1	850898	24 DSI BURNER BOX WELDMENT
17	1	142809	1/2" X 29 1/8" PIPE
16			
15			
14	1	141317	1/2" BRONZE UNION ELBOW
13	2	152013	6-32 HEX NUT 1/4" ATF ZINC PLTD
12	9	150300	#10-16 X 1/2" HEX WASHER TEK PLTD
11	1	810029	FENWAL MODULE MOUNTING BRACKET ASSEMBLY
10	1	128937	A.D.C. FENWAL CONTROL D.S.I. MODULE
9	1	884103	IGNITOR PROBE ASSEMBLY
8	1	128927	GAS VALVE
7	5	150309	#10-16 X 1/2" HH TEK CRIMPITE SCREW
6	1	318714	1 PIECE GAS VALVE BRACKET
5	1	141230	1/2" DSI MANIFOLD (2 PORT)
4	2	140844	BLANK BURNER ORIFICE
3	2	150108	#8-32 X 1/2" PAN HEAD MACHINE SCREW
2	2	151001	#8-32 PAL NUT
1	2	141104	SMALL TUBE BURNER
ITEM	QTY	PART NO.	DESCRIPTION



Previously used Johnson Controls AD-24 (natural) Burner Assembly

ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			
30	1	318700	PIPE BRACKET (BENT)
29	1	130403	330° HI-LIMIT WITH AUTO RESET
28	1	319704	HI-LIMIT MOUNTING BRACKET
27	1	154002	1/8" PUSH-ON FASTENER
26	1	319202	SAIL SWITCH DAMPER (FLAT)
25	1	105500	SAIL SWITCH ACTUATOR ROD
24	2	150303	#4 X 3/4" PAN HEAD "A" MACHINE SCREW
23	1	122200	SAIL SWITCH
22	1	802799	SAIL SWITCH TOP AND SWITCH BRACKET WELDMENT
21	1	154004	TWIN SPEED NUT
20	2	150001	#6-32 X 1/2" ROUND HEAD MACHINE SCREW
19	2	151000	#6-32 PAL NUT
18	1	850898	24 DSI BURNER BOX WELDMENT
17	1	142809	1/2" X 29 1/8" PIPE
16			
15			
14	1	141317	1/2" BRONZE UNION ELBOW
13	2	152013	6-32 HEX NUT 1/4" ATF ZINC PLTD
12	9	150300	#10-16 X 1/2" HEX WASHER TEK PLTD
11	1	810031	DSI MODULE MOUNTING BRACKET ASSEMBLY
10	1	801048	A.D.C. DSI JOHNSON MODULE (3 TRESI W/DATE LABEL)
9	1	809307	IGNITOR PROBE ASSEMBLY
8	1	128927	GAS VALVE
7	5	150309	#10-16 X 1/2" HH TEK CRIMPITE SCREW
6	1	318714	1 PIECE GAS VALVE BRACKET
5	1	141230	1/2" DSI MANIFOLD (2 PORT)
4	2	140844	BLANK BURNER ORIFICE
3	2	150108	#8-32 X 1/2" PAN HEAD MACHINE SCREW
2	2	151001	#8-32 PAL NUT
1	2	141104	SMALL TUBE BURNER
ITEM	QTY	PART NO.	DESCRIPTION



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2-1/2" PILLOW BLOCK BEARING P/N 100242 AND P/N 881775 NOW OBSOLETE

Due to the recent change from a setscrew type to griplock type bearing, the **ADC** P/N 100242 and **ADC** P/N 881775 2-1/2" Pillow Block Bearing with setscrews are no longer available. All orders placed for either of these setscrew type bearings will automatically be cross-referenced by our system and filled with the 2-1/2" griplock bearing (**ADC** P/N 884100).

IMPORTANT: THIS PARTICULAR GRIPLOCK BEARING COLLAR SETSCREW MUST BE TORQUED TO BETWEEN 360 TO 400 INCH POUNDS.

PHASE 7.2.1 (GEN I) NON-COIN MP BOARD DISCONTINUED

In reference to the recent change where the models AD-15 through 170 NON-COIN computer system changed from Phase 7.2.1 (GEN I) (**ADC** P/N 137247) to 7.2.2 (GEN II) (**ADC** P/N 137243), the Gen I board (**ADC** P/N 137247) is no longer available. All orders placed for the Gen I board (**ADC** P/N 137247) will automatically be cross-referenced and filled with a Phase 7.2.1 to 7.2.2 kit.

The two Phase 7 MP boards are totally interchangeable physically. However, some software changes and programming procedures were changed where the customer's existing 7.2.1 MP User's manual (included with the dryer) is now not totally accurate. As the result of this, a new manual (7.2.2) and program location label is included in the 7.2.1 to 7.2.2 kit as well as applicable instructions.

Being that there are different versions of the Phase 7.2.2 boards (**ADC** P/N 137247) in the field where parameters differ (i.e. with Sensor Activated Fire Extinguishing [S.A.F.E.] or Fire Suppression System [F.S.S.], D models, etc.) for parts orders, different kit numbers have been assigned. So, when an Phase 7.2.1 board (**ADC** P/N 137247) is ordered, there is a multiple choice for the appropriate 7.2.1 to 7.2.2 kit. When placing a parts order and the **ADC** P/N 137247 is used, then the model and serial number of the dryer MUST be provided so that the correct Phase 7.2.1 to 7.2.2 kit is provided. Failure to do so will delay in the processing of the parts order.

Choices for PH7.2.1 to 7.2.2 kits are:

Dryers manufactured with S.A.F.E. (i.e. AD, CG, etc. models but NOT MD models): **ADC** P/N 887000

Dryers manufactured with F.S.S. (i.e. STI models etc.): **ADC** P/N 887001

D model dryers with S.A.F.E.: **ADC** P/N 887002

MD model dryers with S.A.F.E.: **ADC** P/N 887006

ELECTRIC ELEMENTS AND INSULATOR PARTS ORDERS

Due to a vendor change, insulators are no longer included with open coil electric elements (i.e., **ADC** P/N 120010, **ADC** P/N 120011, **ADC** P/N 120012, etc.) when purchased as a parts order. When ordering open coil electric elements, the insulators (two [2] each of both external [**ADC** P/N 120080] and internal [**ADC** P/N 120081]) must be purchased separately.



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D170 GAS/STEAM BLOWER MOTOR ASSEMBLY CHANGE

The blower motor assembly used on the gas (50 Hz ONLY) and steam (60 Hz ONLY) model D170 has changed as of **November 11, 2003**. The motor sheave and bushing have changed, and as the result, the assembly differs. Drawings below are of the current arrangement.

CURRENT PRODUCTION

50 Hz. GAS:

SHEAVE 4.4 **ADC** P/N 101195
 BUSHING **ADC** P/N 101152
 ASSEMBLY **ADC** P/N 837052

60 Hz STEAM:

SHEAVE 4.4 **ADC** P/N 101195
 BUSHING **ADC** P/N 101152
 ASSEMBLY **ADC** P/N 837053

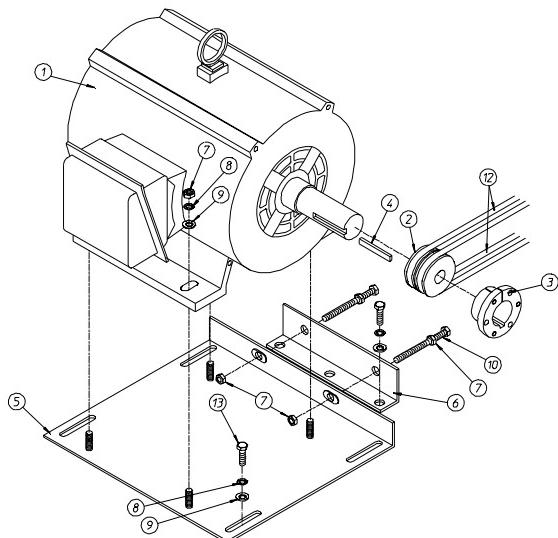
PAST PRODUCTION

SHEAVE 4.8 **ADC** P/N 101147
 BUSHING **ADC** P/N 101194
 ASSEMBLY **ADC** P/N 837028

SHEAVE 4.0 **ADC** P/N 101148
 SAME
 ASSEMBLY **ADC** P/N 835298

The new motor mount assembly can be used as a direct replacement for models manufactured prior to this change. Again, this change only affects the 50 Hz GAS AND 60 Hz STEAM versions of D170 model only.

CURRENT PRODUCTION GAS

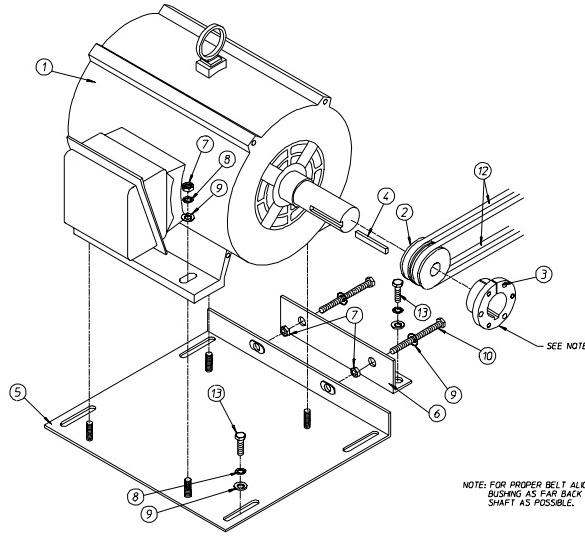


JEV 12/1/03

MAN7039

ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			
13	7	150501	5/16-18 X 3/4" BOLT
12	2	100195	BX-73 COGGED BELTS (MATCHED)
11			
10	1	150503	5/16-18 x 2" MACHINE BOLT
9	7	153001	5/16 FLAT WASHER
8	7	153002	5/16 LOCK WASHER
7	8	152004	5/16-18 HEX NUT
6	1	332322	ADJUSTMENT ANGLE
5	1	821091	AD-170 SE ADJUSTMENT PLATE
4	1	REF	KEY (SUPPLIED WITH MOTOR)
3	1	101152	SH x 1 3/8 BORE BUSHING
2	1	101195	2B x 4.4 SHEAVE
1	1	181031	7 1/2 HP MOTOR (50Hz) TENV
ITEM	QTY	PART NO.	DESCRIPTION

CURRENT PRODUCTION STEAM



JEV 12/1/03

MAN7038

TITLE: AD - 175 60Hz STEAM BLOWER MOTOR ASSEMBLY			
DR. BY J. PERLAND	APL. BY J. PERLAND	DATE: 10/21/03	DATE: 10/21/03
PART NO. 837028			

ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			
13	7	150501	5/16-18 X 3/4" BOLT
12	2	100184	BX-63 COGGED BELTS (MATCHED)
11			
10	2	150509	5/16-18 x 3" MACHINE BOLT
9	13	153001	5/16 FLAT WASHER
8	11	153002	5/16 LOCK WASHER
7	9	152004	5/16-18 HEX NUT
6	1	332322	ADJUSTMENT ANGLE
5	1	821091	AD-170 SE ADJUSTMENT PLATE
4	1	REF	KEY (SUPPLIED WITH MOTOR)
3	1	101152	SH x 1 3/8 BORE BUSHING
2	1	101195	2B x 4.4 SHEAVE
1	1	181030	7 1/2 HP MOTOR (60Hz) TENV
ITEM	QTY	PART NO.	DESCRIPTION



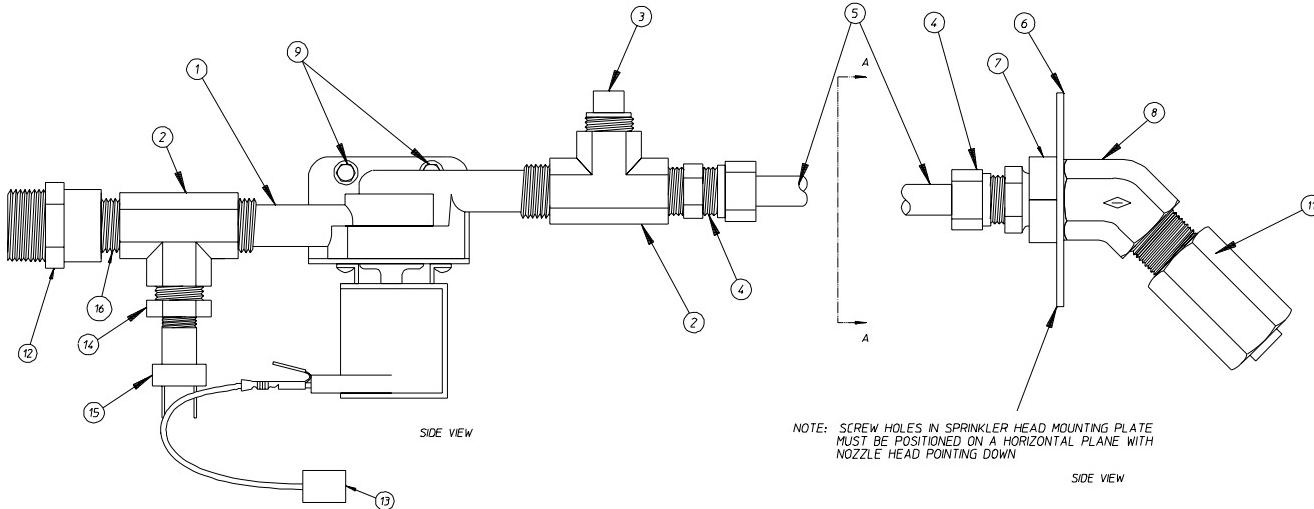
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MEDIUM RANGE DRYER S.A.F.E. SYSTEM CHANGE

A slight change has been made to the medium dryer range Sensor Activated Fire Extinguishing (S.A.F.E.) system piping arrangement where for ease of assembly and service, the 3/8" close nipple (refer to Illus. no. 16 in drawing) used at the brass tee has been replaced with a 3/8" brass "hex" nipple. This change was implemented in the models AD-120, AD-170, CG115-25, CG145-55, CG165-75, CG190-00, D90, D120, D170, AND STI-45 on **Decemeber 2, 2003.**

The 3/8" brass "hex" nipple (**ADC** P/N 182579) can be used as a direct replacement for the previously used 3/8" close nipple (**ADC** P/N 143241).

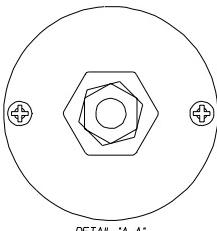


ITEM	QTY	PART NO.	DESCRIPTION
BILL OF MATERIALS			
16	1	182579	3/8" HEX NIPPLE
15	1	136987	PRESSURE SENSOR
14	1	143241	BUSHING 3/8" X 1/8" (IEI 110-B-06X02)
13	1	824081	RC NETWORK ASSEMBLY
12	1	143025	3/8" NPT NYLON HOSE ADAPTER
11	1	143561	3 GPM 3/8" FPT SPRAY NOZZLE
10			
9	2	152001	8-32 X 3/8" OD HEX NUT ZINC
8	1	143301	3/8" BRASS 45° ELBOW
7	1	143303	3/8" NPT BRASS LOCKNUT
6	1	311588	SPRINKLER HEAD MOUNTING PLATE
5	1	143108	20' LONG S/S FLEXIBLE TUBING
4	2	143208	3/8" COMP X 3/8" MPT BRASS CONNECT
3	1	143251	3/8" MFT BRASS PLUG
2	2	143220	3/8" FPT BRASS TEE
1	1	165114	FSS SOLENOID VALVE 24V 50/60

NOTE:
ADD P/N 482005 1/2" WHITE TEFLON THREAD SEALANT TAPE
TO ALL CONNECTIONS ON THE INLET SIDE OF THE FSS VALVE

JEV 12/2/03

MAN7034



TITLE: M96, 122, 190, 170, 175, S.A.F.E. SYSTEM PIPING ASSEMBLY	
DR BY: R. WING	APP. BY:
DATE: 4/3/01	DATE:

PART NO.: 847610

D120 FRONT PANEL CHANGE

The D120 front panel has been redesigned to include two (2) pieces that can be removed independently. Illustration #1 shows the one piece front panel arrangement used in production prior to **December 2, 2003**. Illustrations #2 and #3 show the new two (2) piece front panel and lint door arrangement.

Illustration #1

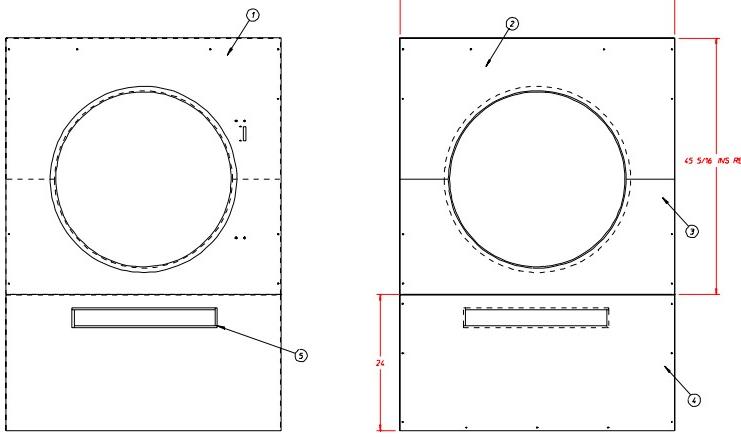


Illustration #2

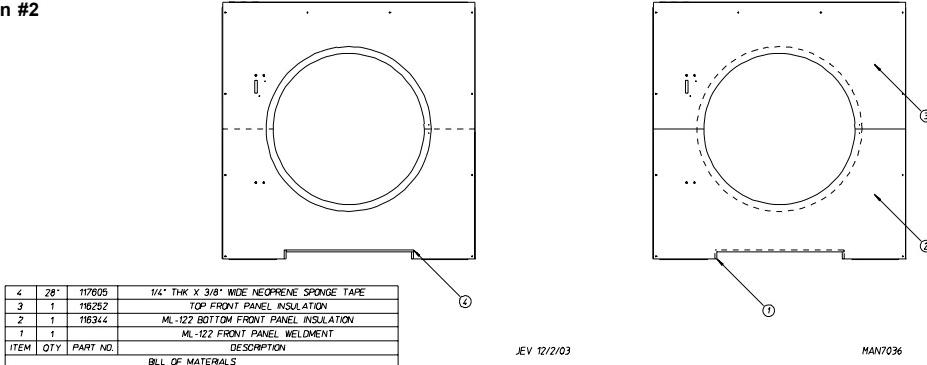
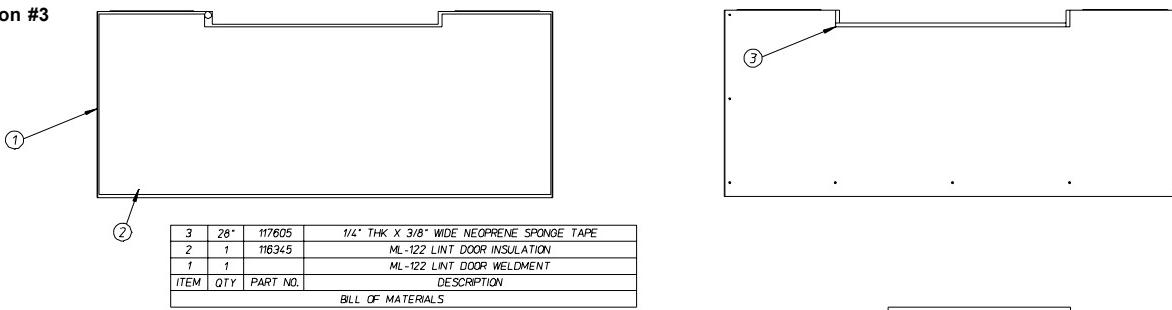


Illustration #3



UPDATE

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